



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX IBE 15.0023** Page 1 of 4 Certificate history:  
Issue 0 (2015-10-16)

Status: **Current** Issue No: 1

Date of Issue: 2019-12-06

Applicant: **Extronics Limited**  
1 Dalton Way  
Midpoint 18  
Middlewich Cheshire  
CW10 0HU  
United Kingdom

Equipment: **Wired handheld scanner**

Optional accessory: Type iSCAN101, iSCAN101PDF, iSCAN101 2D and iSCAN1112D

Type of Protection: **Intrinsic safety "i"**

Marking: Type iSCAN101 and iSCAN101PDF:  
Ex ib IIC T4 Gb  
Ex ib IIIC T135 °C Db

Type iSCAN1012D:  
Ex ib IIB T4 Gb  
Ex ib IIIC T135 °C Db

Type iSCAN1112D  
Ex ib op is IIB T4 Gb  
Ex ib op is IIIC T135 °C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Alexander Henker**

Position:

Deputy Head of department Certification Body

Signature:  
(for printed version)

Date:

2019-12-06

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**IBExU Institut für Sicherheitstechnik GmbH**  
Fuchsmühlenweg 7  
09599 Freiberg  
Germany



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Manufacturer: **Extronics Limited**  
1 Dalton Way  
Midpoint 18  
Middlewich Cheshire  
CW10 OHU  
United Kingdom

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-28:2015** Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[DE/IBE/ExTR15.0014/00](#)

[DE/IBE/ExTR15.0014/01](#)

Quality Assessment Report:

[GB/EXV/QAR19.0010/00](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The wired handheld scanners type iSCAN101, iSCAN101PDF, iSCAN1012D, iSCAN1112D are used in hazardous areas of Zone 1 and Zone 2 and 21 or 22 as a hand-held unit. They are used to capture 1D codes (barcodes) and 2D codes (stacked-codes). The hand scanners consist of a housing made of plastic including window. The housing contains the electronic circuits and the light sources.

The hand scanners are connected by means of supply cable iSCAN1XXCABX with an intrinsically safe power supply iSCANPSX or iSCANPSX2D.

The technical data are mentioned in the Annex to this certificate.

**SPECIFIC CONDITIONS OF USE: NO**



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- The hand scanners comply with the requirements of IEC 60079-0, Ed. 7
- A new type has been added.
- A new QAR has been provided.

## Annex:

[Annex\\_IBE15.0023\\_01.pdf](#)



# IECEX Certificate of Conformity - Annex



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## Technical Data

- Ambient temperature range: -20 °C to +50 °C
- Light Source; Target laser: visible red light, Popt. < 35 mW or 5 mW/mm<sup>2</sup>; wave length 630/1310 nm
- Current consumption: ≤ 420 mA (standby 220 mA; scan 420 mA)

## Electrical data:

	iSCAN101 and iSCAN101PDF	iSCAN101 and iSCAN101PDF	iSCAN101 and iSCAN101PDF	iSCAN101 2D	iSCAN1012D	iSCAN1112D	iSCAN1112D
connecting g cable	iSCAN1XXCAB 5 iSCAN1XXCAB 6	iSCAN1XXCAB 1 iSCAN1XXCAB 2	iSCAN1XXCAB 3 iSCAN1XXCAB 4	iSCAN1XXCAB 1 iSCAN1XXCAB 2	iSCAN1XXCAB 3 iSCAN1XXCAB 4	iSCAN1XXCAB 1 iSCAN1XXCAB 2	iSCAN1XXCAB 3 iSCAN1XXCAB 4
Max. input voltage $U_i$	5.6 V	4.9 V	4.9 V	4.9 V	4.9 V	5.6 V	5.6 V
Max. input current $I_i$	480 mA	480 mA	480 mA	750 mA	780 mA	1140 mA	1180 mA
Max. input power $P_i$	1.25 W	1.25 W	1.25 W	2 W	2 W	4.5 W	4.5 W
Max. internal inductanc e $L_i$	negligible	negligible	negligible	negligible	negligible	negligible	negligible
Max. internal capacitance $C_i$	46 µF	112.4 µF	112.4 µF	202 µF	202 µF	869 µF	869 µF